



NOAA 101



NOAA Vision, Mission & Values

NOAA's Vision:

- To move NOAA into the 21st Century scientifically and operationally, in the same interrelated manner as the environment that we observe and forecast, while recognizing the link between our global **economy** and our planet's ecology

NOAA's Mission:

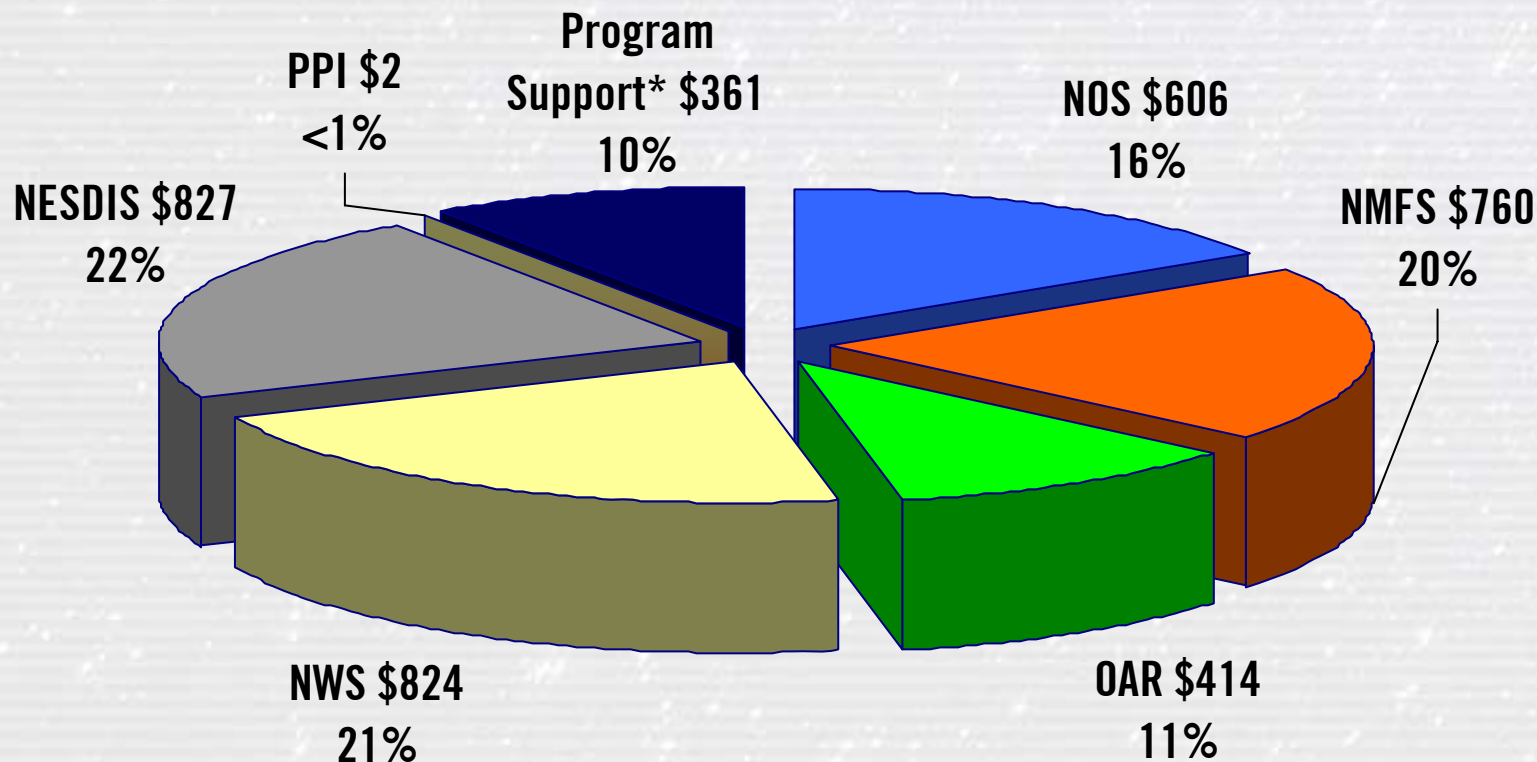
- To understand and predict changes in the Earth's environment and conserve and manage coastal and marine resources to meet the Nation's **economic**, social and environmental needs

NOAA's Core Values:

- People, Integrity, Excellence, Teamwork, and Ingenuity
- Science, Service and Stewardship

NOAA Line Office Budgets

FY 2004 Enacted
(Dollars in Millions)



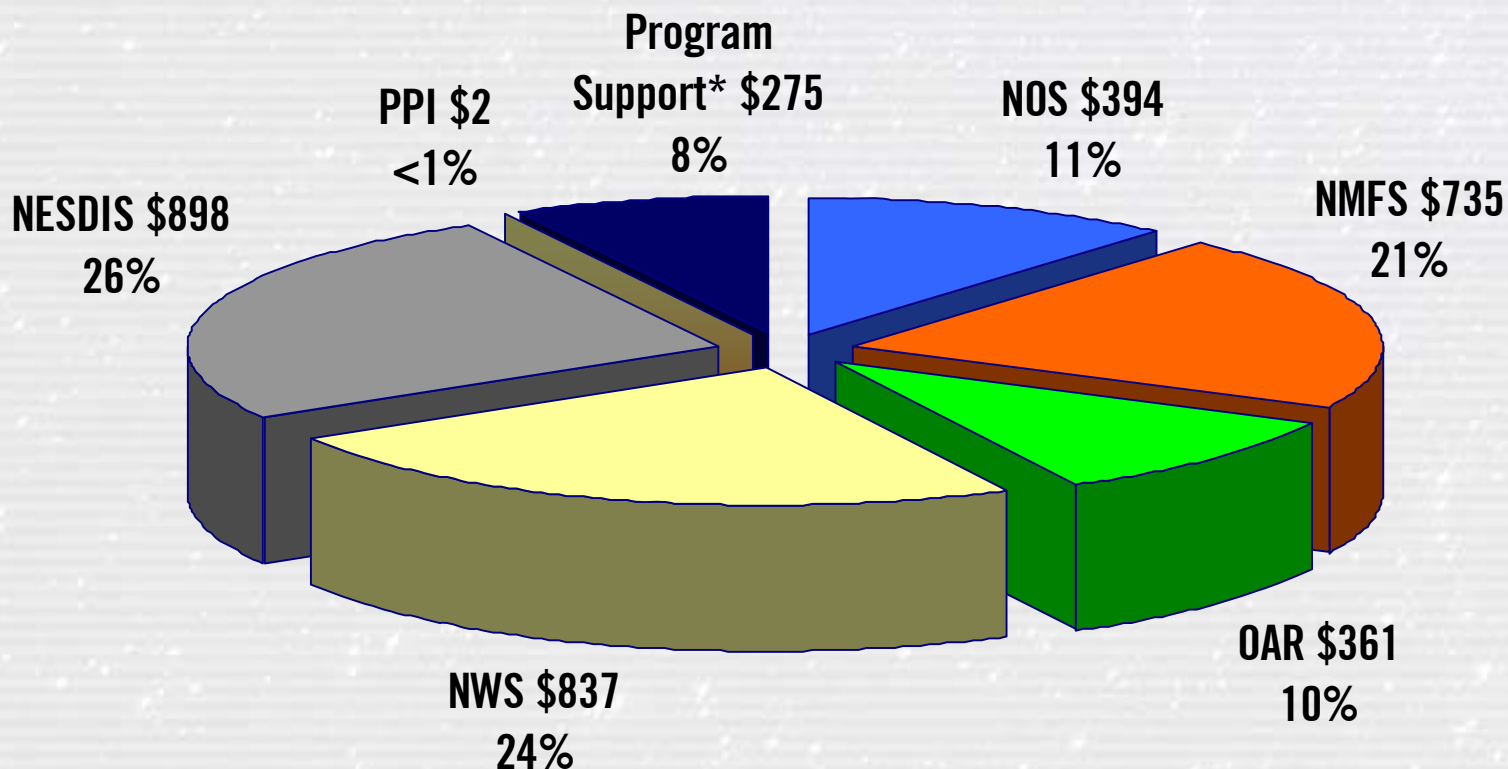
Total = \$3,690.3 M

In FY04, NOAA represented 63.2% of total DOC discretionary budget authority

**including NMAO, USAO, Facilities*

NOAA Line Office Budgets

FY 2005 President's Budget (Dollars in Millions)



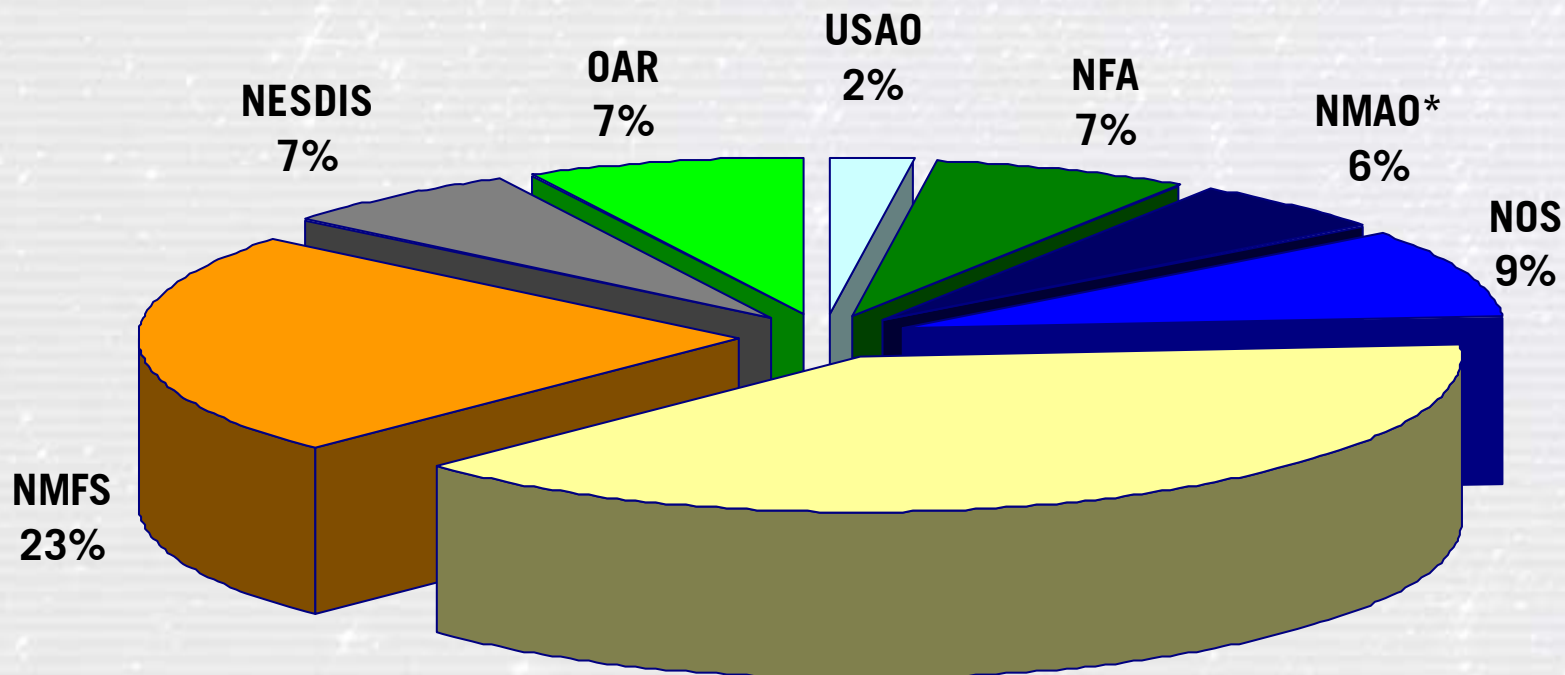
Total = \$3,380.8 M (budget authority)

Total = \$3,502.2 M (all obligations)

*including NMAO, USAO, Facilities

8.4% decrement from FY04 enacted

NOAA Employees Per Line Office



266 USAO

887 NFA

694 NMAO*

1177 NOS

4861 NWS

2947 NMFS

839 NESDIS

946 OAR

Total = 12,617

In FY04, NOAA represented 33% of total DOC employment

*Includes 270 Commissioned Officers

NOAA Strategic Plan

1. Protect, restore, and manage the use of coastal and ocean resources through **ecosystem**-based management.
2. Understand **climate** variability and change to enhance society's ability to plan and respond.
3. Serve society's needs for **weather and water** information.
4. Support the Nation's **commerce** with information for safe, efficient, and environmentally sound **transportation**.





NOAA Strategic Plan

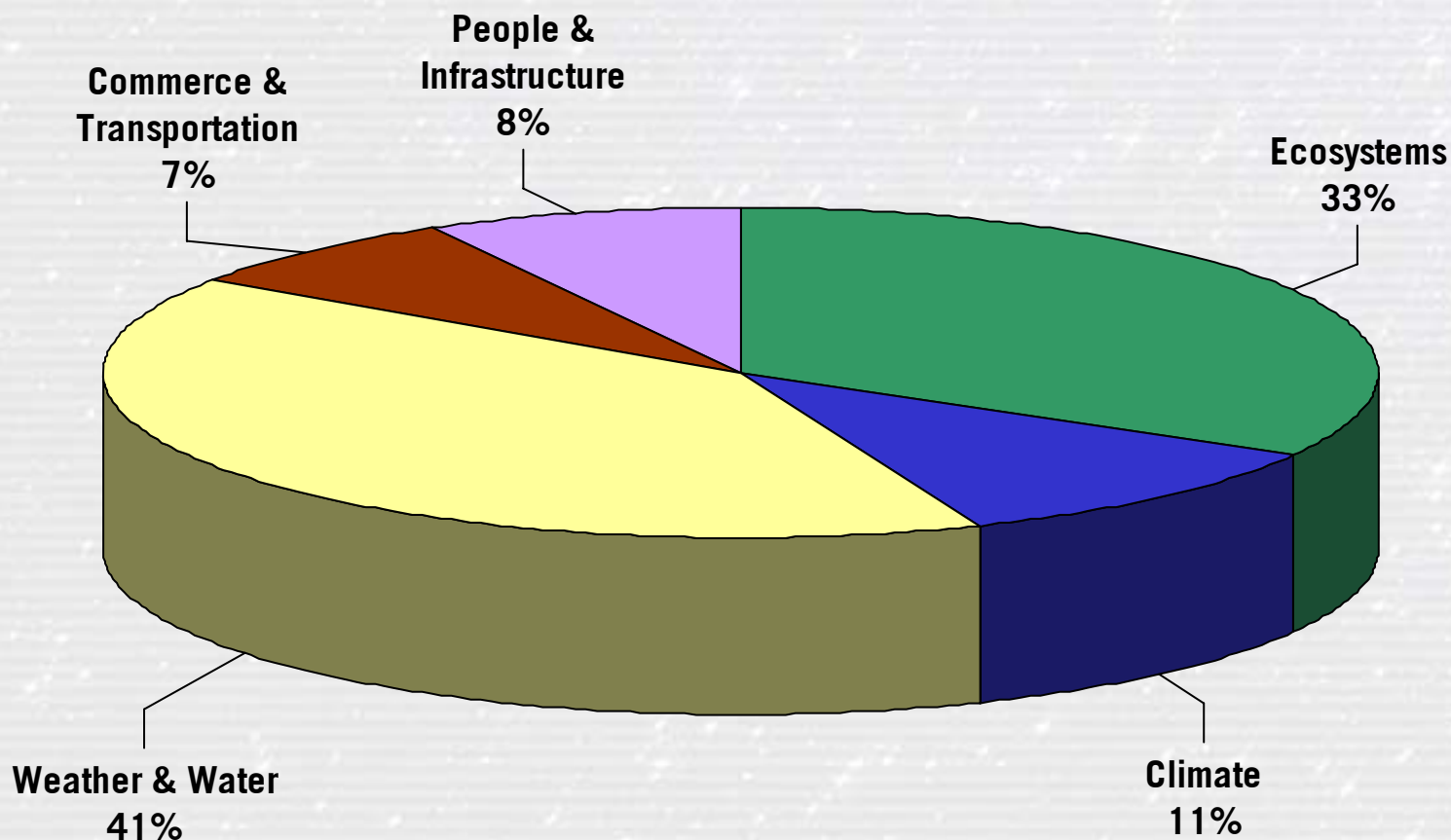
Cross-Cutting Priorities

- Integrated Global Environmental Observation and Data Management System
- Environmental Literacy, Outreach, and Education
- Sound, Reliable State-of-the-Art Research
- International Cooperation and Collaboration
- Homeland Security
- Organizational Excellence:
 - Leadership
 - People and Infrastructure
 - Information Technology
 - Administrative Products and Services



NOAA Budget By Goal & Crosscutting Priority

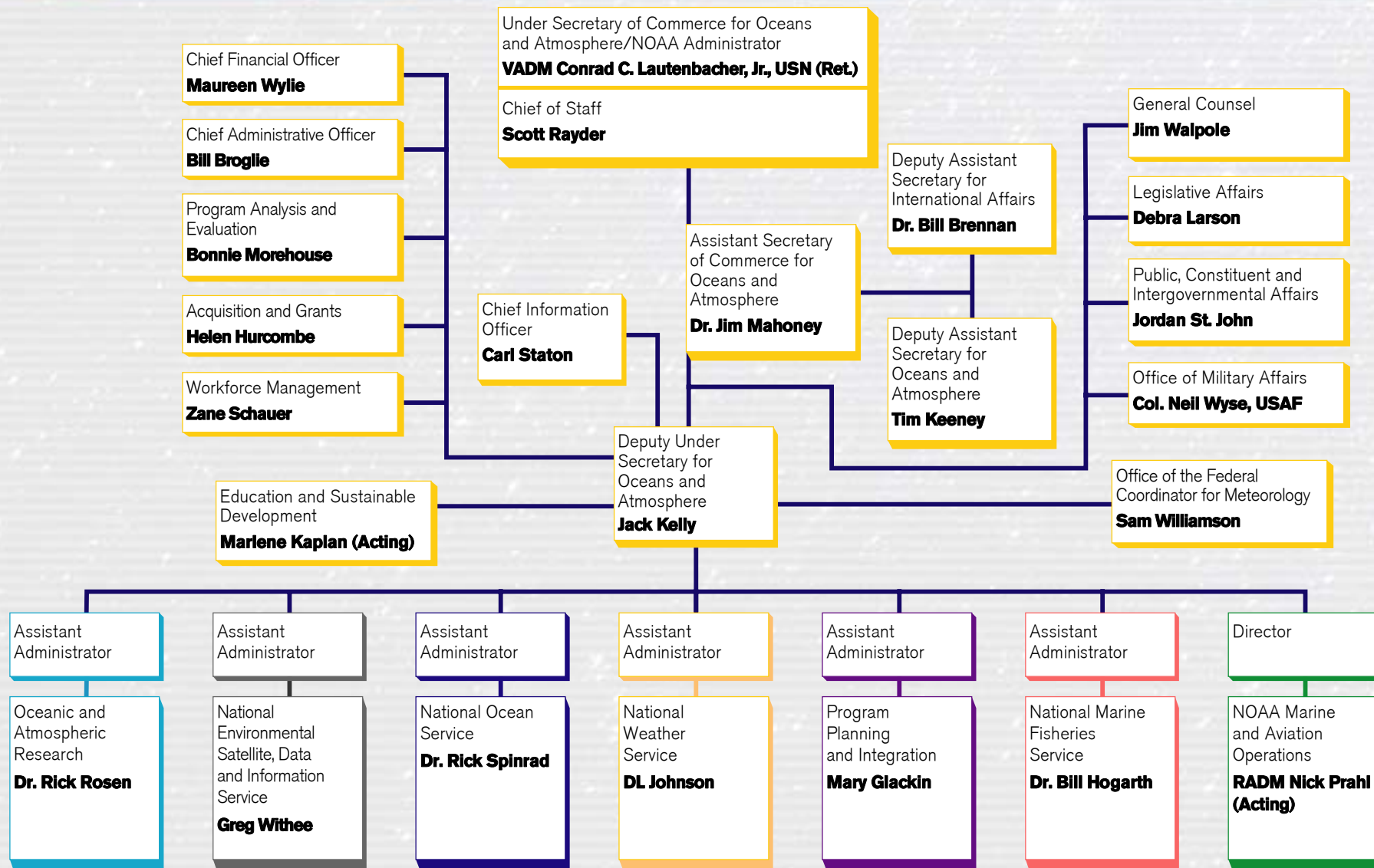
FY 2005 President's Budget[†]



[†]Total Direct Obligations



NOAA Administrative Organization





NOAA Operational Organization

NOAA Program Manager List

Goal 1

Ecosystems

Mike Sissenwine (NMFS)

Habitat Restoration **Rollie Schmitten (NMFS)**

Corals **David Kennedy (NOS)**

Protected Areas **Jamie Hawkins (NOS)**

Coastal Resource Management **Doug Brown (NOS)**

Invasive Species **Dorn Carlson (OAR)**

Undersea Research and Exploration **Craig McLean (OAR)**

Protected Species Management **Laurie Allen (NMFS)**

Fisheries Management **Jack Dunnigan (NMFS)**

Aquaculture **Linda Chaves (NMFS) [A]**

Enforcement **Dale Jones (NMFS)**

Ecosystem Research **Bill Fox (NMFS)**

Goal 2

Climate

Chet Koblinsky (OAR)

Climate Observations **Tom Karl (NESDIS)**

Climate Forcing **Dan Albritton (OAR)**

Climate Predictions & Projections **Ants Leetmaa (OAR)**

Climate & Ecosystems **Ned Cyr (NMFS)**

Regional Decision Support **Claudia Nierenberg (OAR)
& Bob Livezey (NWS)**

Goal 3

Weather & Water

Jack Hayes (NWS)

Local Forecasts and Warnings **Greg Mandt (NWS)**

Tropical Storm Program **Ed Rappaport (NWS)**

Space Weather **Ernie Hildner (OAR)**

Hydrology – Rivers, Lakes and Floods **Gary Carter (NWS)**

Air Quality **Jim Meagher (OAR)**

Environmental Modeling **Mary Erikson (NWS) [A]**

Weather Water Science and Technology Infusion Program **Frank Kelly (NWS)**



NOAA Operational Organization

Goal 4

Commerce & Transportation

Charlie Challstrom (NOS)

Marine Transportation Systems

Rich Edwing (NOS)

Aviation Weather

Mark Andrews (NWS)

Marine Weather

Paul Moersdorf (NWS)

Geodesy

Dave Zilkoski (NOS)

NOAA Emergency Response

David Kennedy (NOS)

Commercial and Remote Sensing Licensing

Tim Stryker (NESDIS)

Commerce and Transportation Science and Technology Program

Maureen Kenny (NOS) [A]

Programs to Support All Goals

Homeland Security

Phil Kenul (CIO)

NOAA Management

George White (USAO)

Geostationary Satellite Acquisition

Gary Davis (NESDIS)

Polar Satellite Acquisition

John Cunningham (NESDIS)

Fleet Services and Acquisition

Elizabeth White (NMAO) [A]

Satellite Services

Richard Barazotto (NESDIS)

Facilities

William Broglie (CAO)

Administrative Services

William Broglie (CAO)

IT Services

John Villemarette (CIO)

Acronyms

CAO (Office of the) Chief Administrative Officer

CIO (Office of the) Chief Information Officer

NESDIS National Environmental Satellite, Data and Information Service

NMAO NOAA Marine and Aircraft Operations

NMFS National Marine Fisheries Service

NOS National Ocean Service

NWS National Weather Service

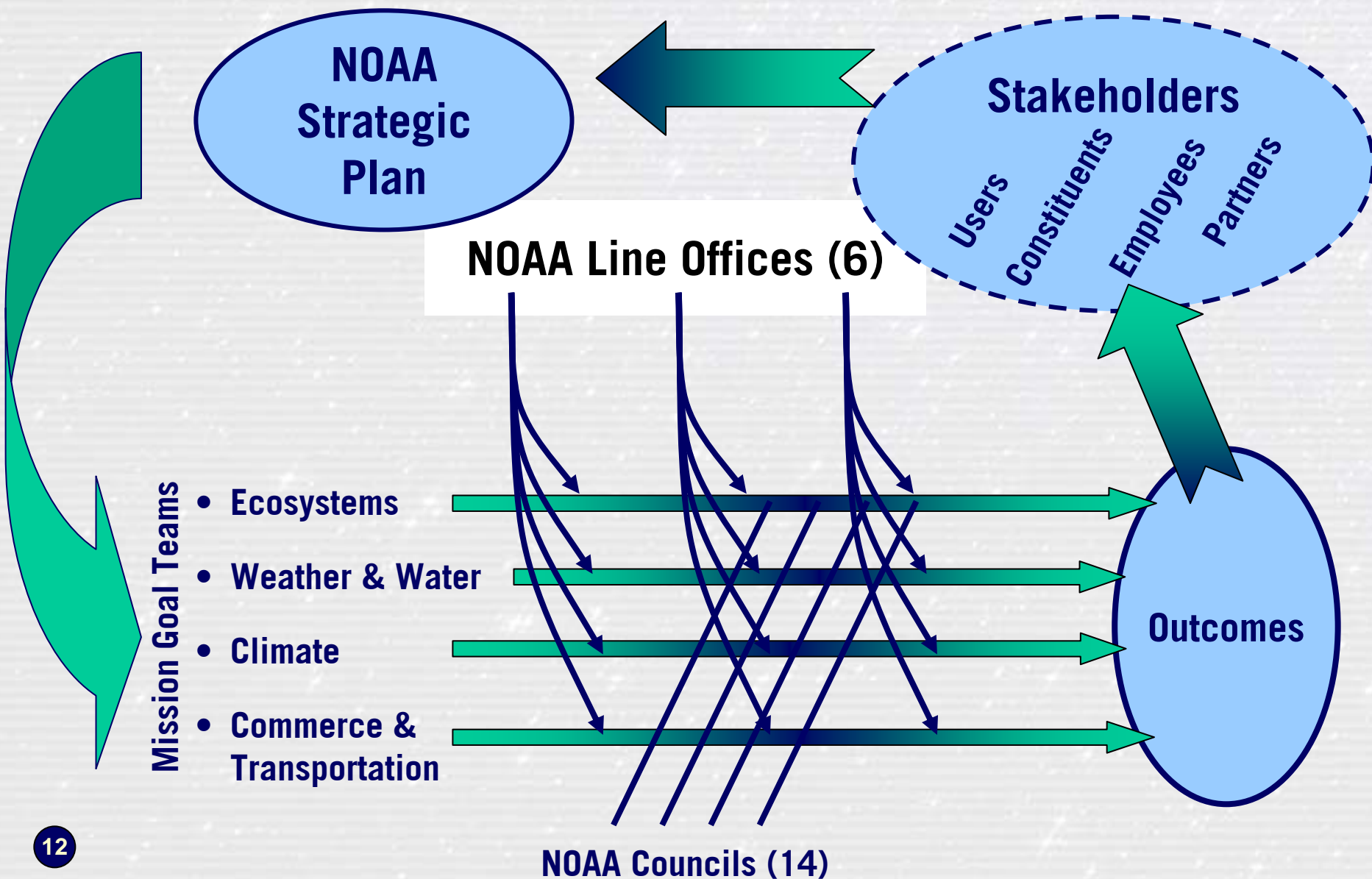
OAR Office of Oceanic & Atmospheric Research

USAO Under Secretary and Associated Offices

[A] Acting



How It All Connects





NOAA Oceans & Coasts

Mission

To manage society's uses of coastal ecosystems to sustain their natural resources and services.

**Richard Spinrad, Ph.D.
Assistant Administrator**



Travel and tourism in the U.S. generates over \$700B annually. Beaches are the leading tourist destination, with coastal states earning 85% of all U.S. tourism revenues. Approximately 180M people vacation and recreate along U.S. coasts every year.

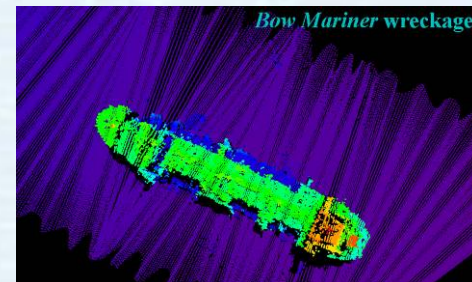
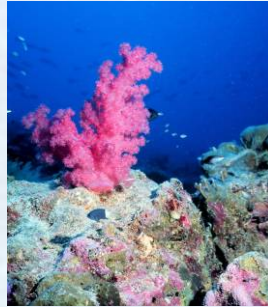
Economic Statistics for NOAA, March 2003



NOAA Oceans & Coasts

Major Programs...

- Coastal Resource Management and Protected Areas
 - Coastal Zone Management Act, National Marine Sanctuary Program
- Mapping, Charting, and Navigation
 - PORTS, Electronic Navigational Charts
- Coastal Ocean Science
 - Harmful Algal Blooms
- Response and Restoration
 - BOW MARINER, Portfields/Coastal Brownfields



NOAA Fisheries

Mission

To provide stewardship of living marine resources through science-based conservation and management and the promotion of healthy ecosystems.

Bill Hogarth, Ph.D.

Assistant Administrator

Total consumers' expenditures for fisheries products are estimated at \$55.3B yearly.

Economic Statistics for NOAA, March 2003



NOAA Fisheries

Major Programs...

Fisheries Management

- International = ICCAT
- Domestic = Amendment 13

Protected Resources

- Endangered Species Act
- Marine Mammal Protection Act

Habitat

- Conservation
- Protection
- Restoration



NOAA Research

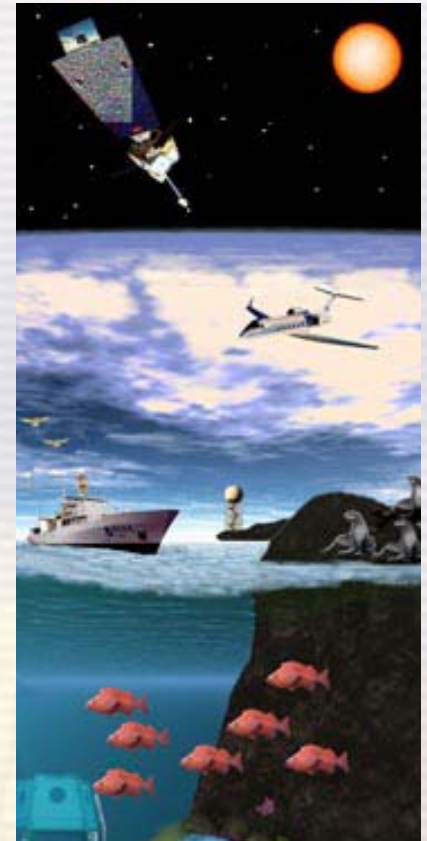
Mission

To conduct research, develop products, and provide scientific information and leadership to foster NOAA's evolving environmental and economic mission.

Richard Rosen, Ph.D.
Assistant Administrator

Overall, the 1997-1998 El Niño is estimated to have had U.S. economic impacts on the order of \$25B.

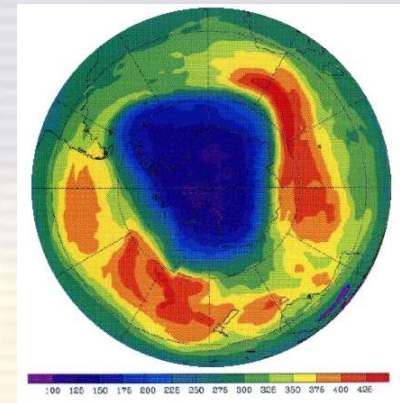
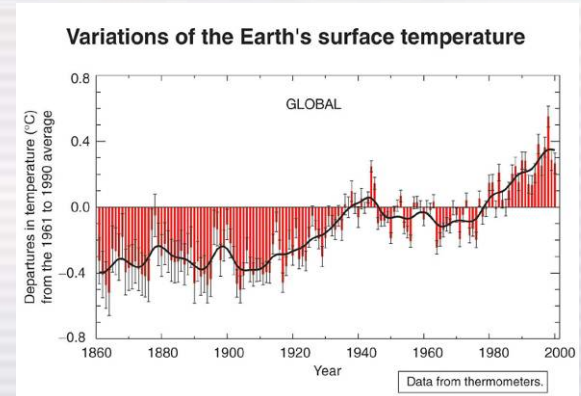
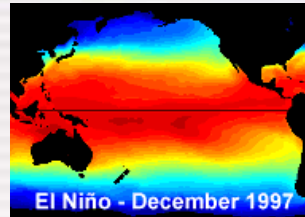
Economic Statistics for NOAA, March 2003



NOAA Research

Major Programs...

- Climate Products
 - Climate Change Science Program (CCSP)
- Weather & Air Quality Products
 - Fire-Weather Forecasting
 - DCNet
- Ocean, Coastal, Great Lakes Products
 - TITANIC
 - Hydrothermal Vents (ring of fire)
 - Zebra Mussel/Invasive Species



NOAA's National Weather Service

Mission

To provide weather, water and climate forecasts and warnings for the United States, its territories, adjacent waters, and ocean areas for the protection of life and property and the enhancement of the national economy.

BGen DL Johnson, USAF (Ret.)

Assistant Administrator

Weather and Climate sensitive industries account for about one-third of the Nation's GDP, or \$3T.

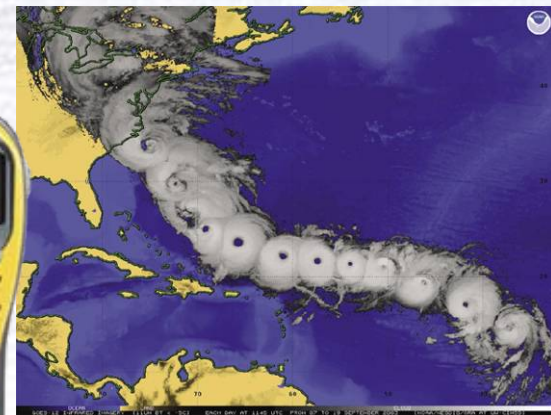
Economic Statistics for NOAA, March 2003



NOAA's National Weather Service

Major Programs...

- **Climate and Weather Forecasting Services**
 - 30-40% of economy affected by weather
- **Advanced Hydrologic Prediction Service**
 - Water level forecasting (hours-to-seasonal)
 - Saves lives and \$240M annually in flood losses
- **Tropical Weather**
 - 5-Day forecasts now as accurate as 3-Day forecasts of past
- **Homeland Security**
 - All-Hazards Radio
 - Dispersion Modeling





NOAA Satellites & Information Service

Mission

To provide timely access to global environmental data and information services from satellites and other sources in support of the larger NOAA mission.

Greg Withee

Assistant Administrator

To date, 17 licenses have been granted by NOAA for the operation of 40 commercial remote sensing satellites, representing approximately \$2B in system investments.

Economic Statistics for NOAA, March 2003

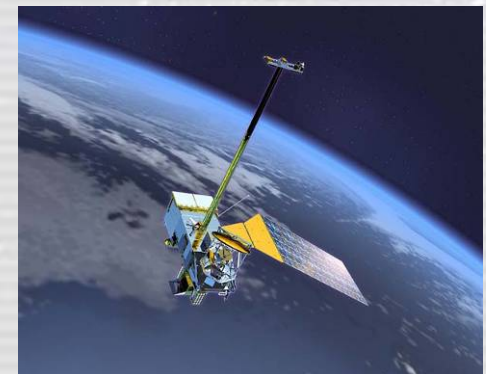
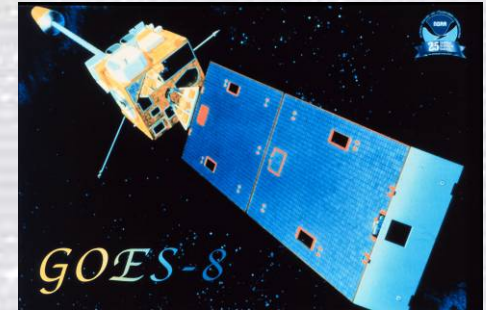




NOAA Satellites & Information Service

Major Programs...

- Geostationary Operational Environmental Satellite (GOES)
- Polar-orbiting Operational Environmental Satellite (POES)
- National Polar-orbiting Operational Environmental Satellite System (NPOESS)
- Environmental Satellite Observing Services
- Environmental Data Management





NOAA Marine & Aviation Operations



Mission

To provide the best value in safe, high-quality ship and aircraft operations and scientific support to NOAA and the Nation.

**RADM Nicholas A. Prah, NOAA
Director (Acting)**



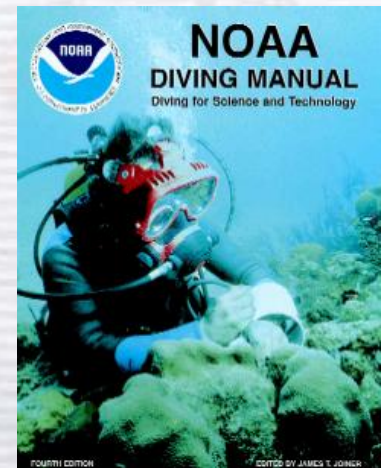
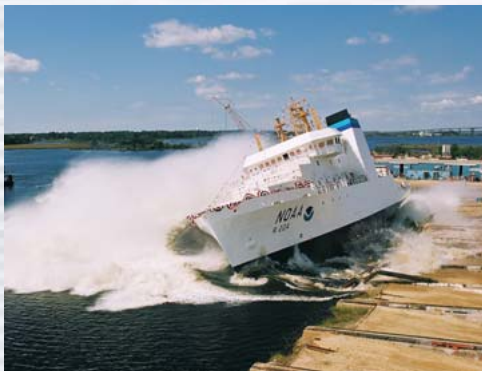
Waterborne cargo alone contributes more than \$742B to the U.S. GDP and creates employment for more than 13M citizens.

Economic Statistics for NOAA, March 2003

NOAA Marine & Aviation Operations

Major Programs

- Operational Management of:
 - 18 NOAA Ships
 - 13 NOAA Aircraft
 - NOAA Diving Program
- Program Support with 270 NOAA Commissioned Corps Officers
- NOAA's primary source of expertise for ship and aircraft charters, particularly the safety aspects



Program Planning and Integration

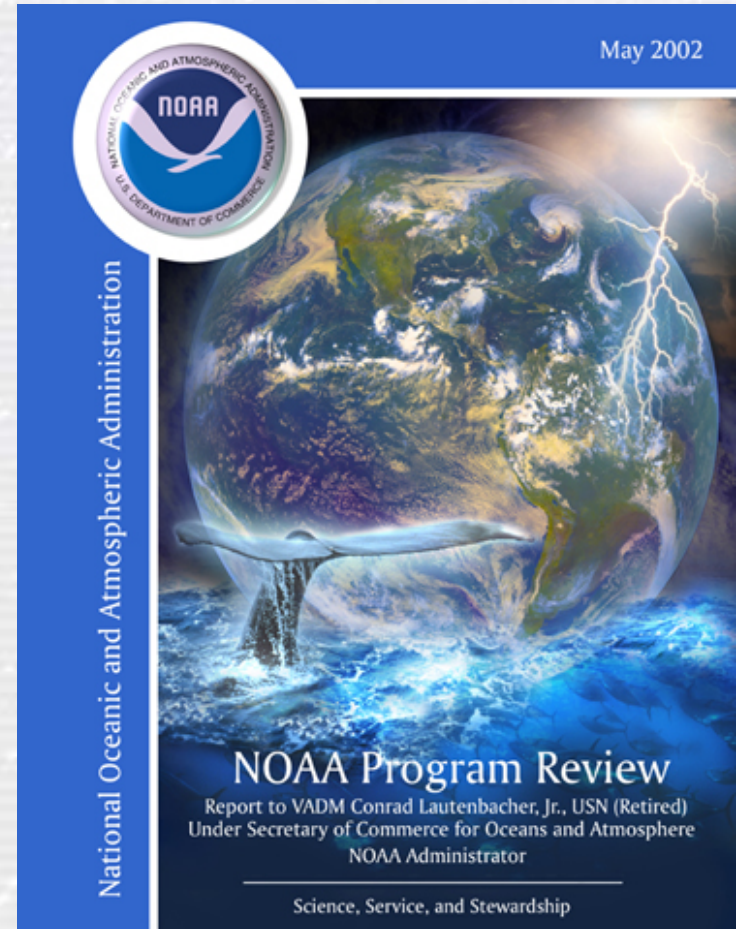
Mission

Lead the implementation of NOAA's Strategic Vision by:

- Developing and evolving NOAA's Strategic Plan
- Managing designated programs using matrix principles
- Promoting development of effective programs by integrating talent, resources, and capacity across NOAA

Mary Glackin

Assistant Administrator



Program Planning and Integration

Major Programs...

- Strategic Planning
- Matrix Management Support
- NEPA Coordination
- Socio-Economic Analysis





NOAA's Emerging Issues

Earth Observation Activities

**U.S. Commission on Ocean Policy
Report Response**

Climate Program (CCSP)

White Water to Blue Water

Magnuson-Stevens Reauthorization

**Coastal Zone Management Act
Reauthorization and Federal
Consistency**

Infrastructure Modernization

Homeland Security Activities

**Marine Transportation System
Modernization**

Research to Operations Transition

Redefining Research within NOAA

Ecosystem Management

Water Resources

Air Quality

Aquaculture

**Increased Demand for Climate and
Weather Services**

Fleet Modernization